

## **Concord Light**

### **Residential Solar PV Net Metering Policy Acknowledgement**

"Net metering" means a system of metering electricity in which Concord Light provides credits on the Customer's bill for electricity generated on the Customer's property which migrates to (i.e. is received by) the Concord Light distribution system when generation is greater than consumption at the Customer location.

This policy is intended for use at residential properties only: specifically, owner occupied, single family/duplex homes. Concord Light will offer net metering to its customers who generate electricity on the Customer's side of the meter provided that the generating capacity of the customer's facility does not exceed 167 kW AC.

Concord Light will assume that the solar PV capacity in kW AC is the smaller of the following:

- The maximum inverter output power, calculated by multiplying the maximum output per inverter times the number of inverters;
- The product of the total maximum panel output power (in kW DC under Standard Test Conditions) and the CEC inverter efficiency.

Installations larger than 10 kW AC are subject to review by Concord Light's engineering division to ensure that the amount of electricity projected to migrate to the distribution system does not exceed the capacity of the transformer serving the Customer, or adversely impact CMLP's distribution system in any other way.

When the solar PV system wiring is installed in such a way that any solar electricity generated that is not used on the Customer's property at a given moment migrates to Concord Light's distribution system, Concord Light will replace the Customer's existing meter with a net meter. The net meter will record any solar electricity that migrates to Concord Light's distribution system because it is not needed on the property at a given moment. A net meter will also record the amount of conventional electricity delivered to the customer by Concord Light, just as the Customer's existing meter has always done.

Each month, any solar electricity (in kilowatthours) that migrates through the Customer's net meter to Concord Light's distribution system will be subtracted from the electricity (in kilowatthours) that the Customer purchases from Concord Light at the Residential Service Rate. The Customer will be billed for the net amount of electricity at the applicable rate for Residential Service, to the extent that the solar electricity that migrates to Concord Light's distribution system does not exceed the Customer's purchases from Concord Light.

To the extent that that the solar electricity that migrates through the Customer's net meter to Concord Light's distribution system exceeds electricity purchases from Concord Light during the month, Concord Light will credit the Customer for the excess at the price that Concord Light pays New England's Independent System Operator for electrical energy on the Spot Market. The "Spot Market" price is defined as the average Day Ahead Price during the hours between 9am and 4pm for the month the migration occurs.

The Spot Market price will fluctuate based on market conditions. In 2014, the average Spot Market price was about \$0.07/kilowatt hour, based on the above formula. In 2015, the average Spot Market price applicable to Concord is projected to be \$0.05-\$0.06 per kilowatt hour. Based on these recent and projected spot market prices, the Spot Market price is expected to be substantially less than the R-1 Residential Service rate that Concord Light charges for delivering electricity to the Customer. In 2015, the R-1 Residential Service Rate will range from \$0.13181 to \$0.17435/kWh, depending on the amount of electricity delivered to the Customer by Concord Light.

If the Customer has controlled electric water heating and low overall electricity consumption, the financial savings due to solar electricity production may be diminished. Please contact Concord Light.

The Customer acknowledges that if the solar PV system is sized so that it produces more electricity than is needed on the property during a given month, the excess electricity will be credited at the Spot Market price, which is substantially lower than the R-1 Residential Service Rate.

All net metering customers will also be assessed a monthly Distribution Charge on their electric bill, which is based upon the size of their solar PV system:

Installed Generation Capacity equal or greater than 2kW but less than 4 kW AC	\$3.60 per month
Installed Generation Capacity equal or greater than 4kW but less than 7 kW AC	\$6.60 per month
Installed Generation Capacity equal or greater than 7kW but less than 10 kW AC	\$10.20 per month
Installed Generation Capacity equal or greater than 10kW but less than 13 kW AC	\$13.80 per month
Installed Generation Capacity equal or greater than 13kW but less than 16 kW AC	\$17.40 per month
Installed Generation Capacity equal or greater than 16kW but less than 19 kW AC	\$21.00 per month

Installed Generation Capacity equal or greater than 19kW but less than 22 kW AC	\$24.60 per month
Installed Generation Capacity equal or greater than 22kW but less than 25 kW AC	\$28.20 per month
Installed Generation Capacity equal or greater than 25kW but less than 28 kW AC	\$31.80 per month
Installed Generation Capacity equal or greater than 28kW but less than 31 kW AC	\$35.40 per month
Installed Generation Capacity equal or greater than 31kW but less than 34 kW AC	\$39.00 per month
Installed Generation Capacity equal or greater than 34kW but less than 37 kW AC	\$42.60 per month
Installed Generation Capacity equal or greater than 37kW but less than 40 kW AC	\$46.20 per month
Installed Generation Capacity equal or greater than 40 kW but less than 46 kW AC	\$53.40 per month
Installed Generation Capacity equal or greater than 46 kW but less than 58 kW AC	\$67.80 per month
Installed Generation Capacity equal or greater than 58 kW but less than 82 kW AC	\$96.60 per month
Installed Generation Capacity equal or greater than 82 kW but less than 130 kW AC	\$154.20 per month
Installed Generation Capacity equal or greater than 130 kW but less than 167 kW AC	\$198.60 per month

Twenty percent of each Concord Light customer bill is used to maintain the local electricity distribution system in Town and to cover Concord Light's operating costs. The Distribution Charge ensures that the costs of maintaining the local electrical distribution system and running Concord Light are shared fairly among all of Concord Light's customers, including those who have reduced their financial contribution towards maintaining these services by replacing some of the electricity they had purchased from

Concord Light with electricity generated by their solar PV system. Customers with solar PV systems continue to receive all of the services provided by the electricity distribution system in Town and by Concord Light. Customers' adoption of solar does not reduce Concord Light's costs for maintaining local infrastructure and providing services. The Customer acknowledges that the Distribution Charge is a condition of receiving net metering credits from Concord Light. This Solar PV Net Metering Policy Acknowledgement references Concord Light's R-6 Rate: Residential Service – Net Metering with Banking Rate, available on Concord Light's website at [http://www.concordma.gov/pages/ConcordMA\\_LightPlant/cmlpinfo](http://www.concordma.gov/pages/ConcordMA_LightPlant/cmlpinfo). The Net Metering Rate, including the Distribution Charges, is subject to change.

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Customer Signature

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Customer Name

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Customer Address

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Date